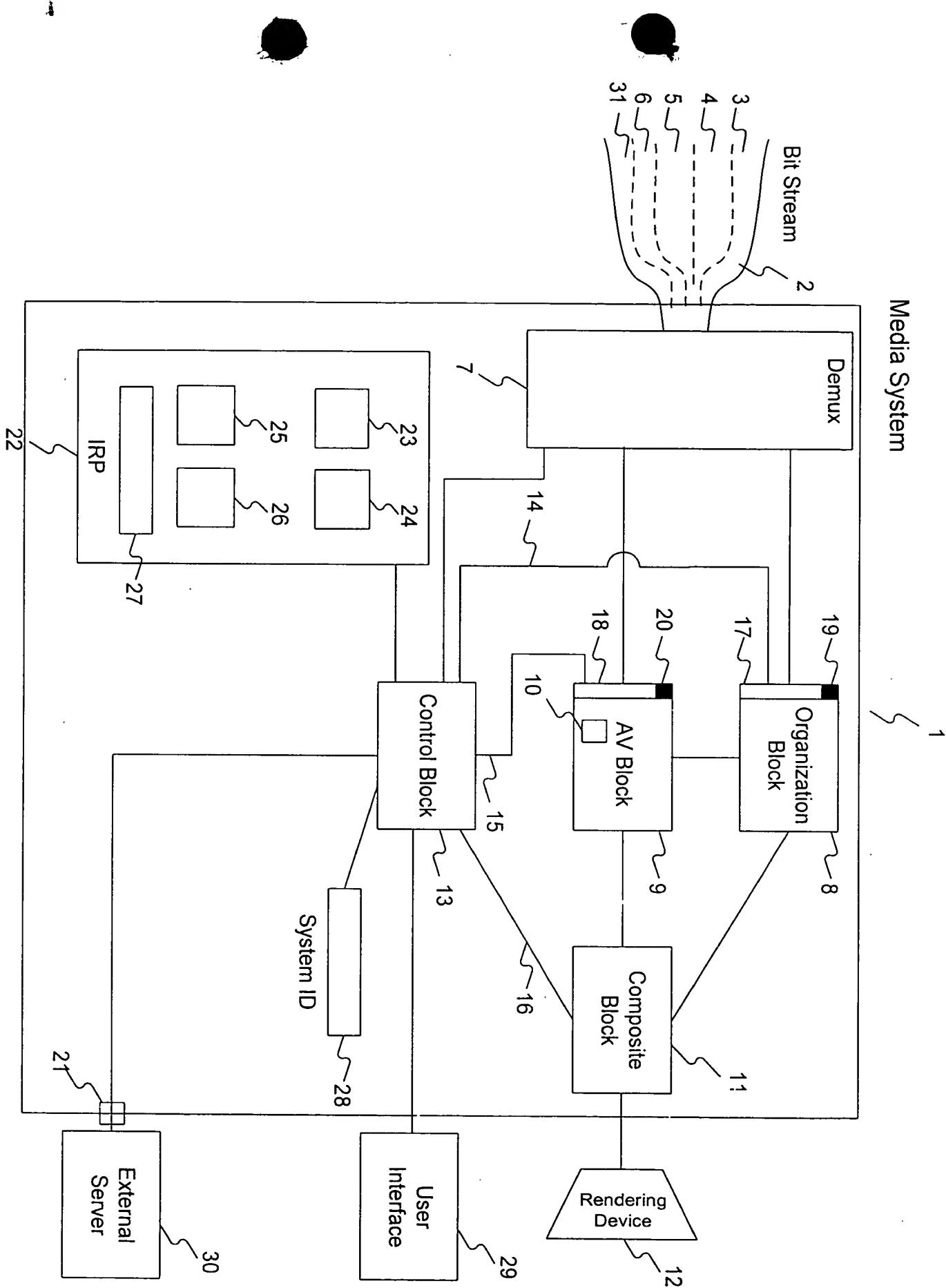
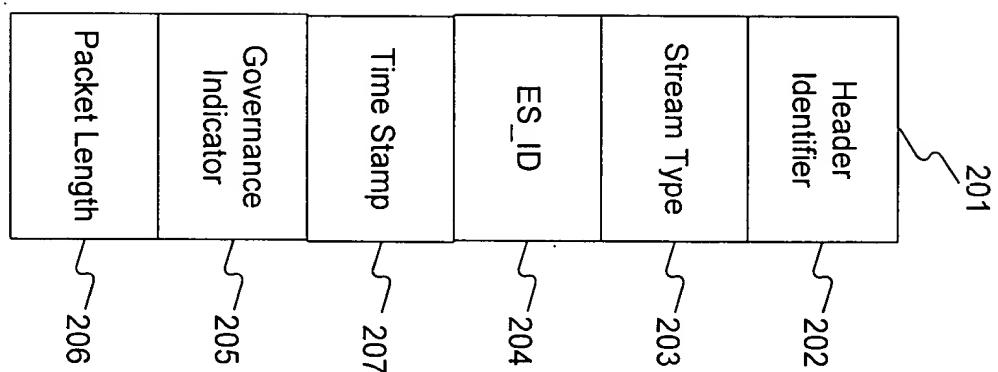


Fig.  
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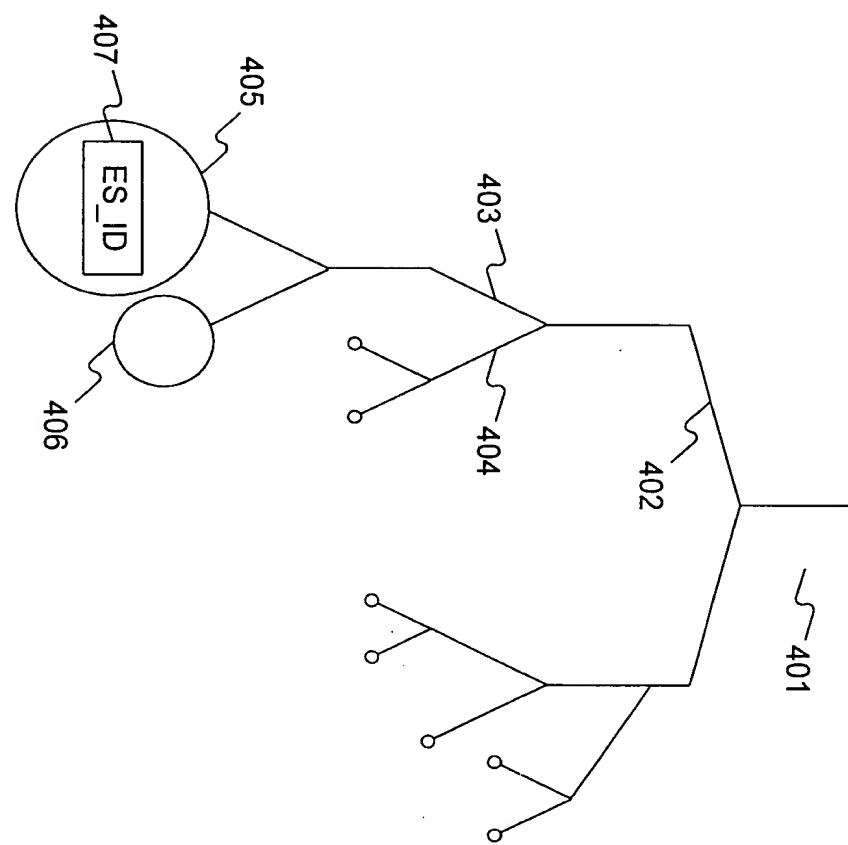
**Fig. 2**

308	307	306	305	304	303	302	301
Packet ID	Packet ID	Header	Packet ID	Packet ID	Packet ID	Packet ID	Header
ES_ID	ES_ID	Audio Stream	ES_ID	ES_ID	ES_ID	ES_ID	Organization Stream
Time Stamp	Time Stamp	ES_ID	Time Stamp	Time Stamp	Time Stamp	Time Stamp	ES_ID
Data	Data	Time Stamp	Data	Data	Data	Time Stamp	4 Packets
		2	Packets				

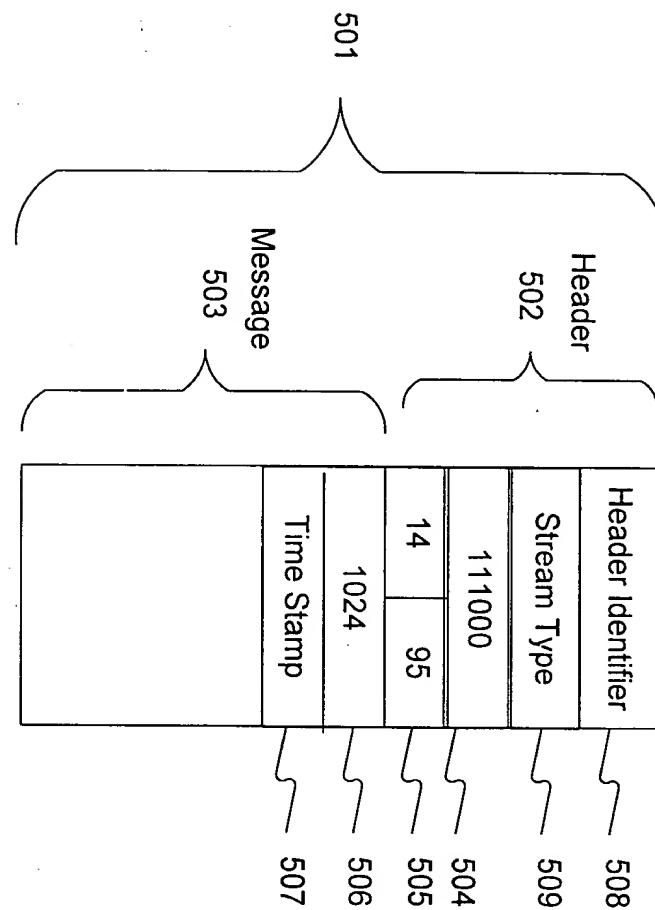
Fig. 3



**Fig. 4**



## Control Message



**Fig. 5**

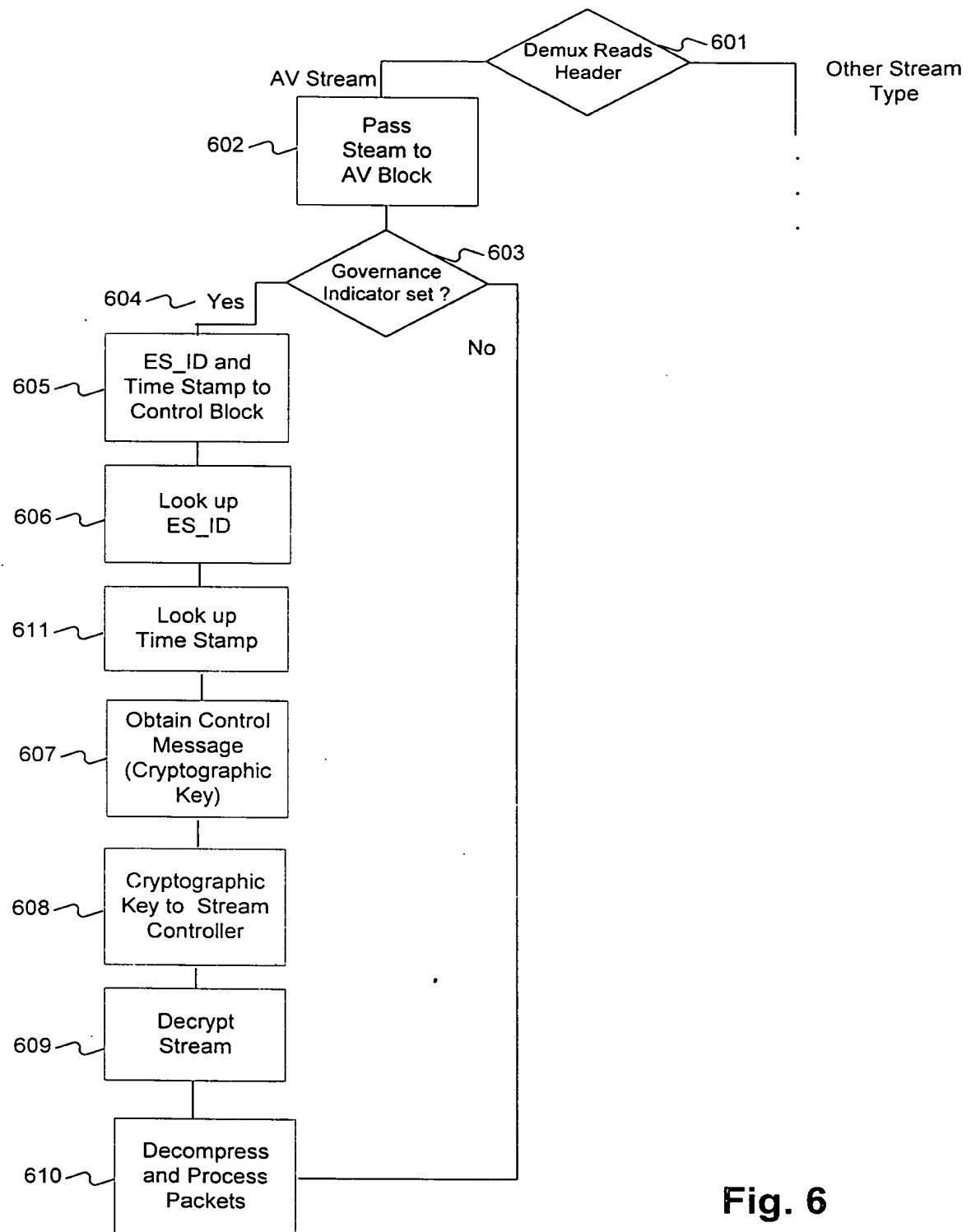
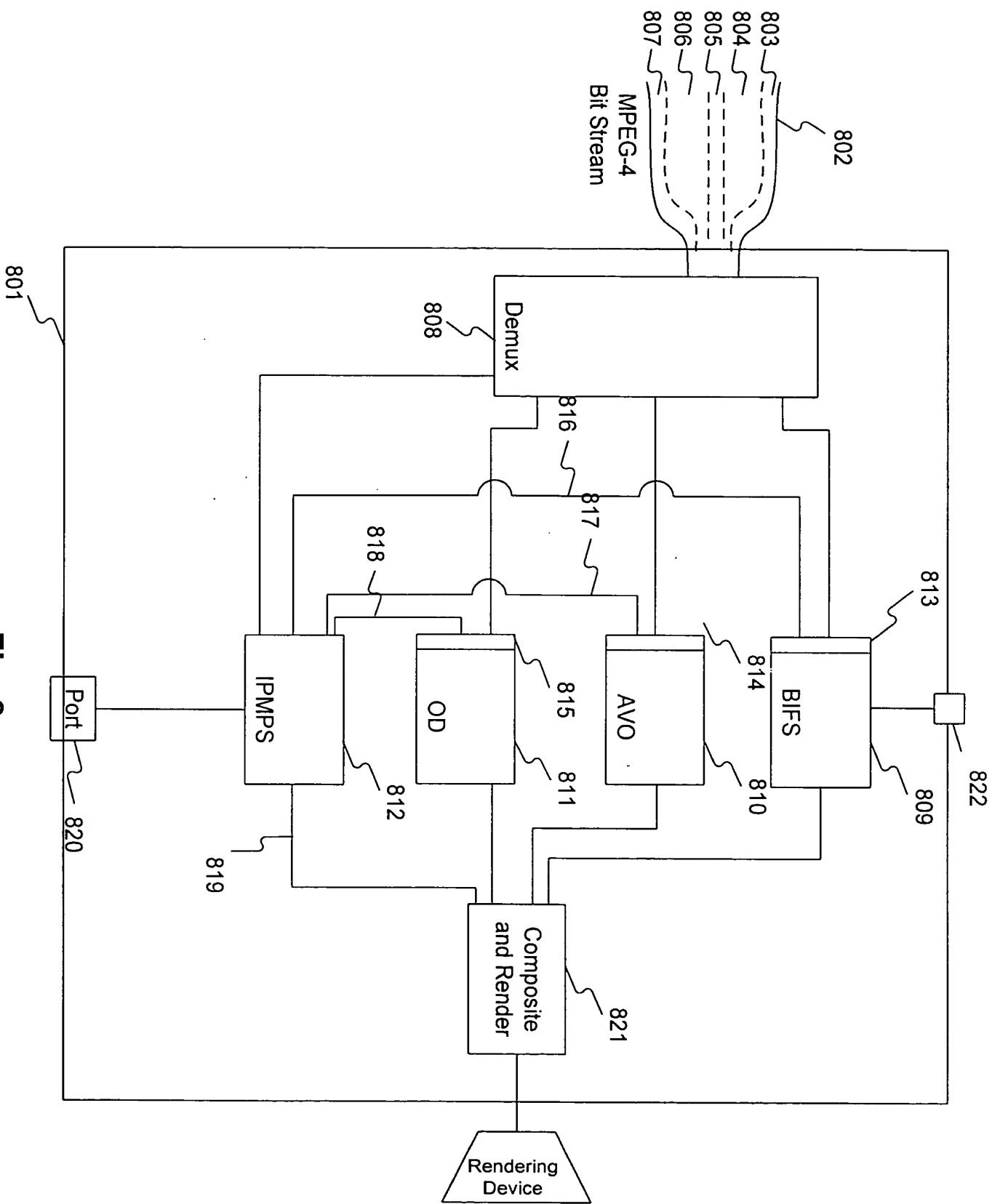


Fig. 6

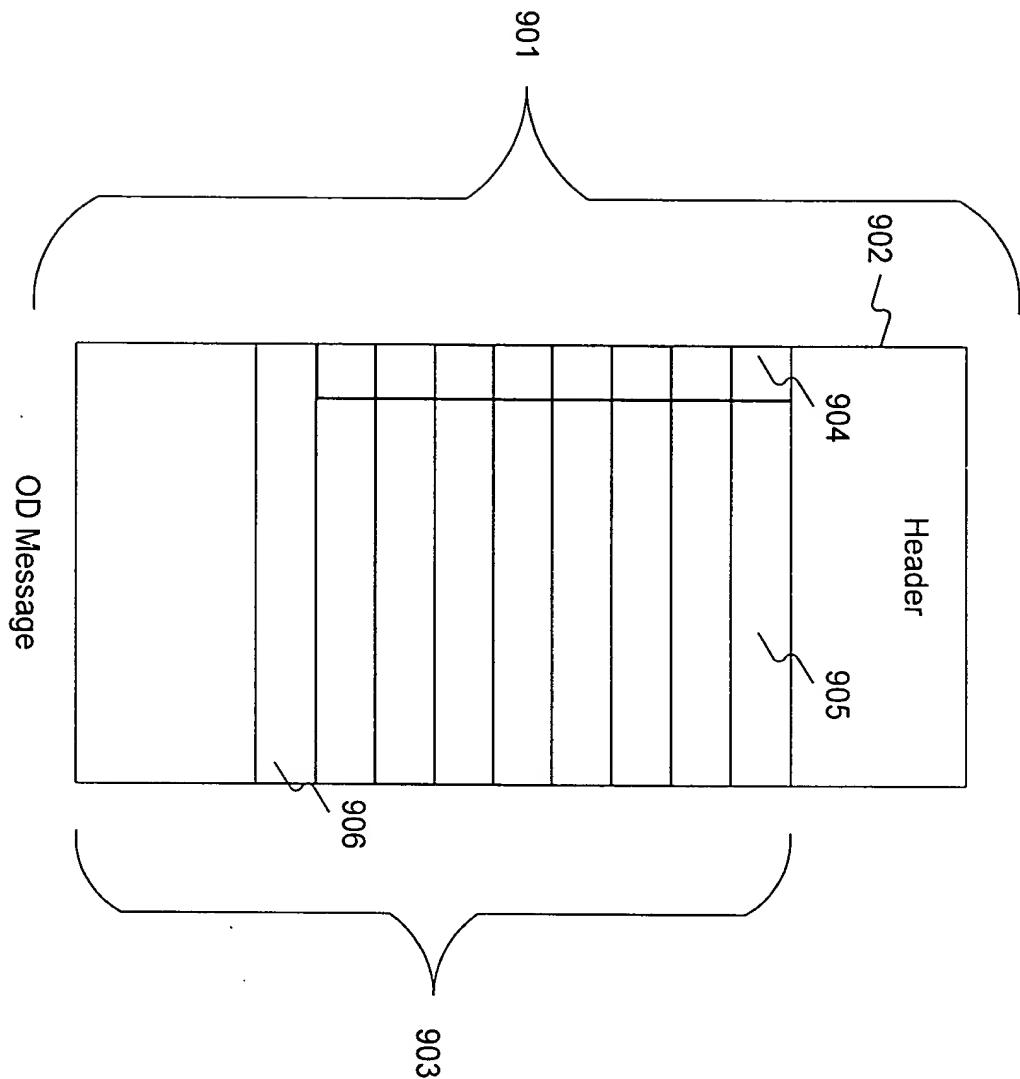
Controlled Streams					
			Key	705	
1	15	903			
2	20	2031	Rule 706	Commands 707	Authorized Sys. ID 708
3	9				Key 709
Authorized System ID					
4	700	49, 50, 51, 52, 53	Rule 710	Commands 711	Key 712
5	21	36	Rule 719	Budget 718	Key 713 Key 715
6	14	1201	Rule	URL	Key 714 Key 716

Fig. 7

Fig.  
8



**Fig. 9**



IPMP Table

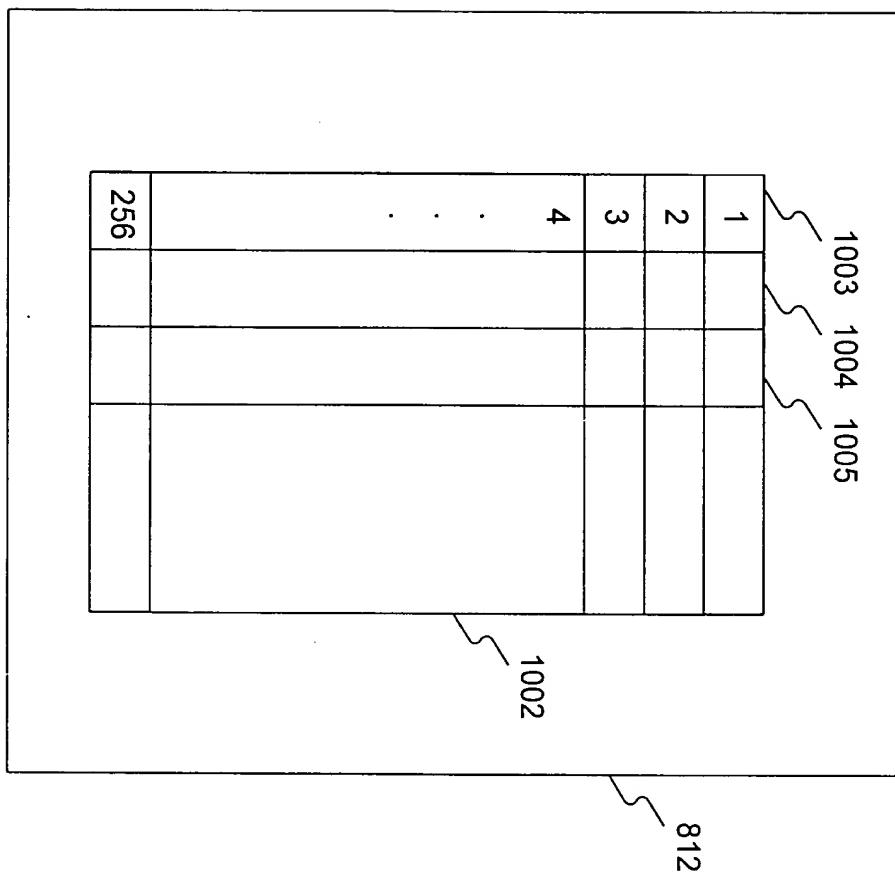
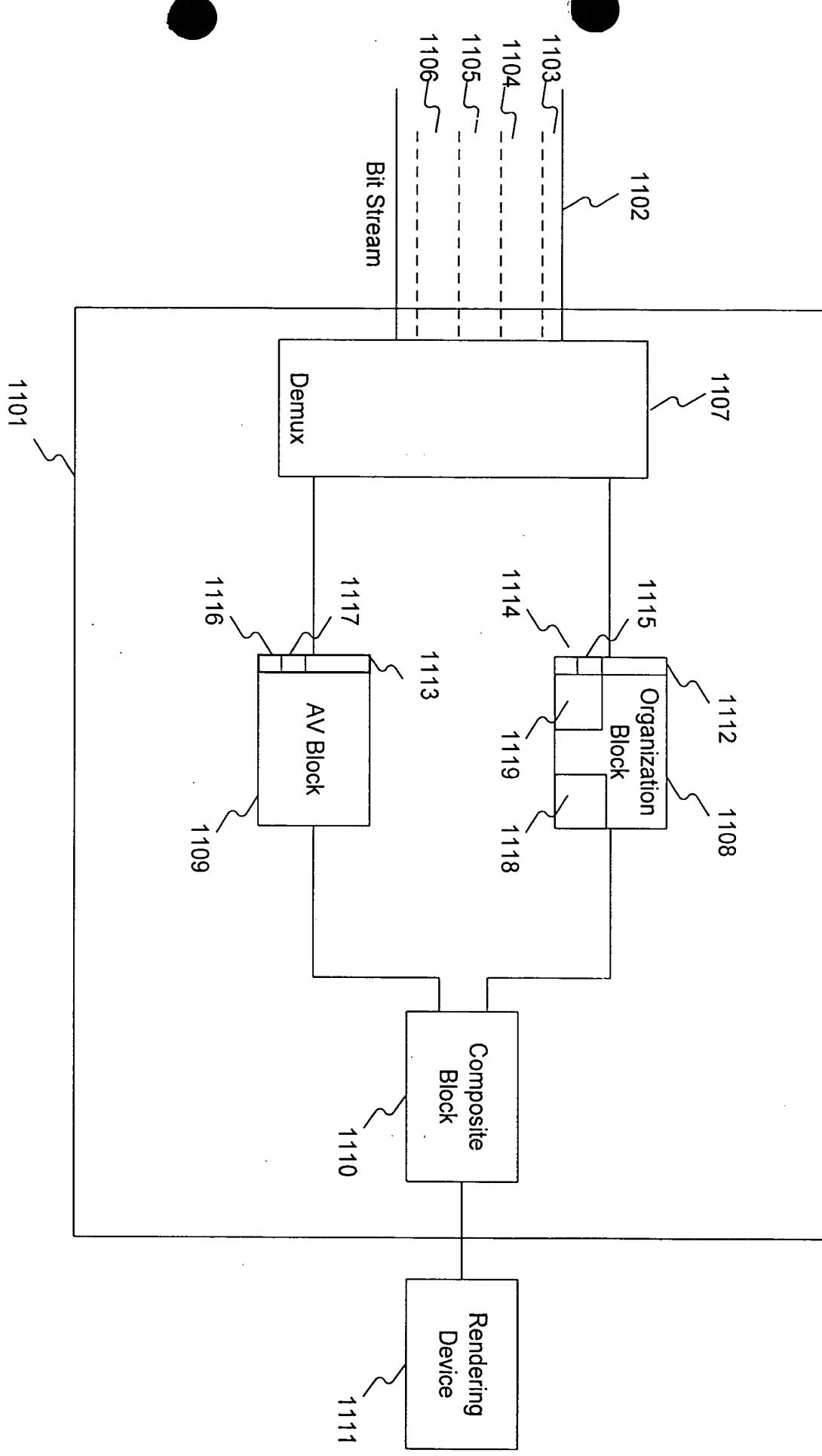
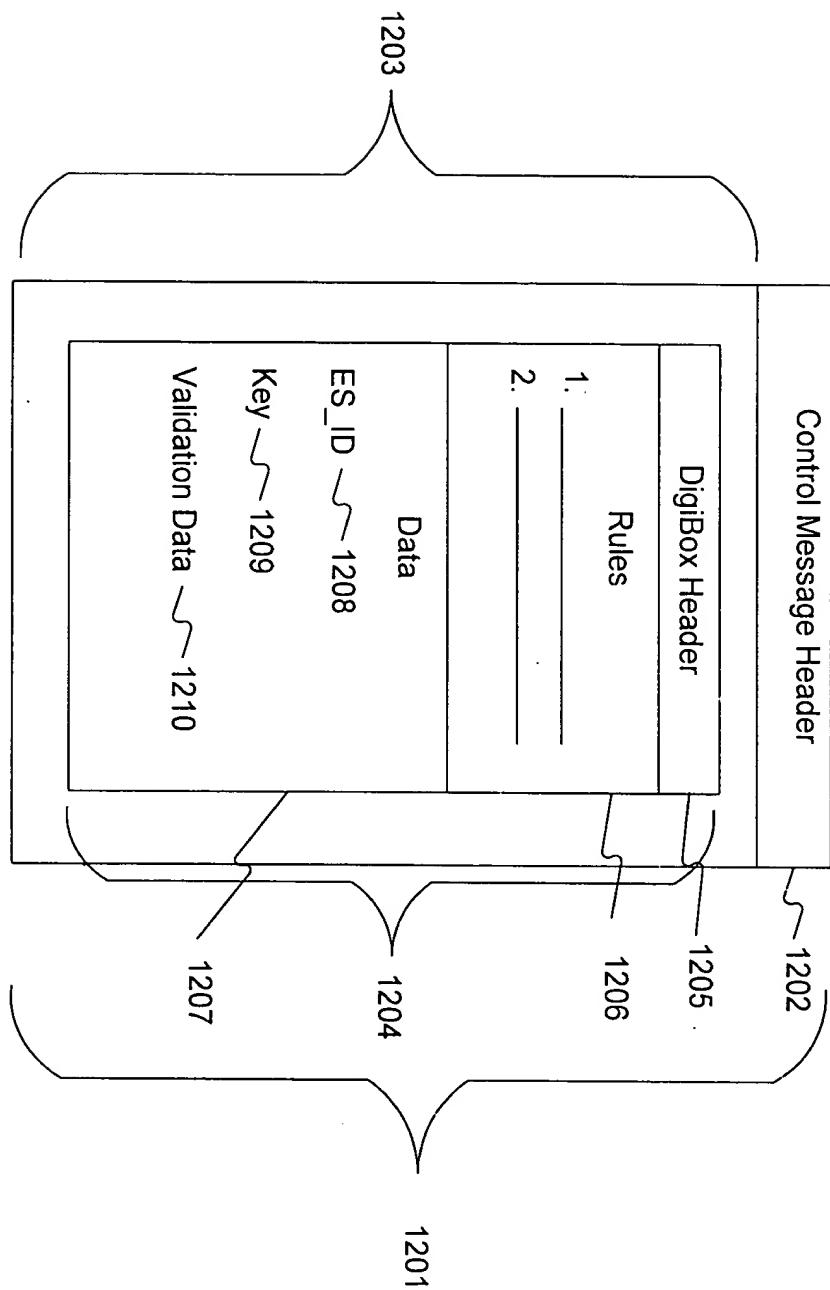


Fig. 10

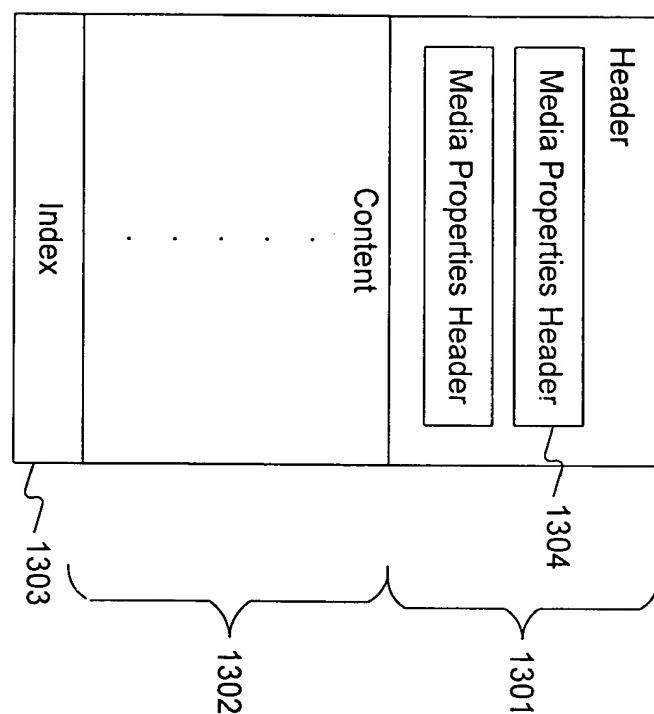
**Fig. 11**



**Fig. 12**

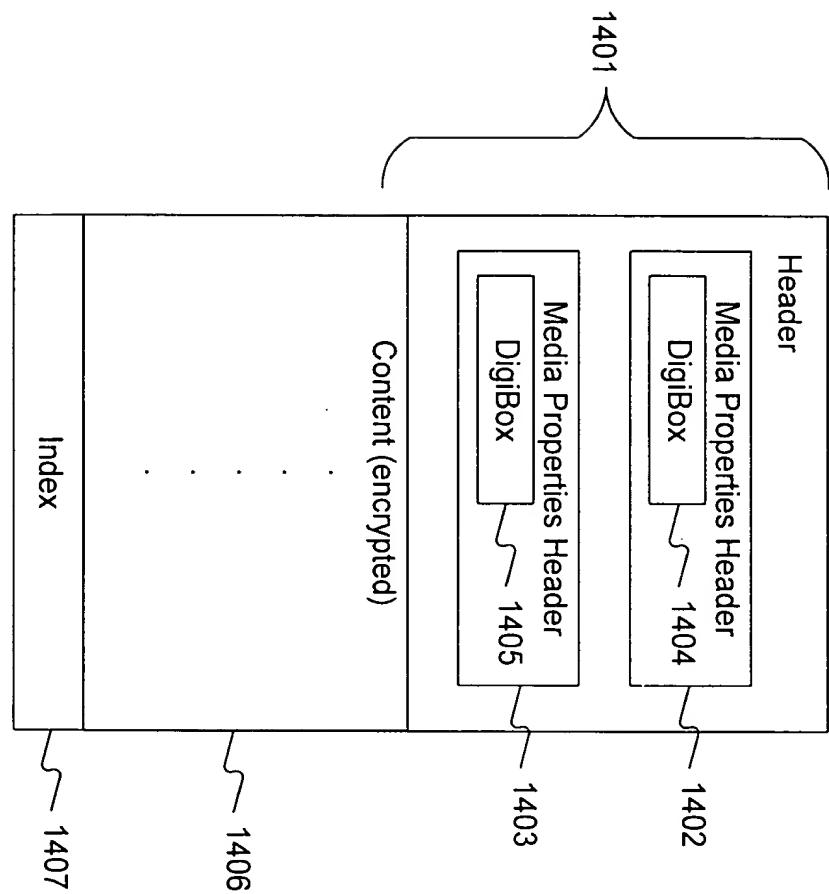


## Real Networks File Format



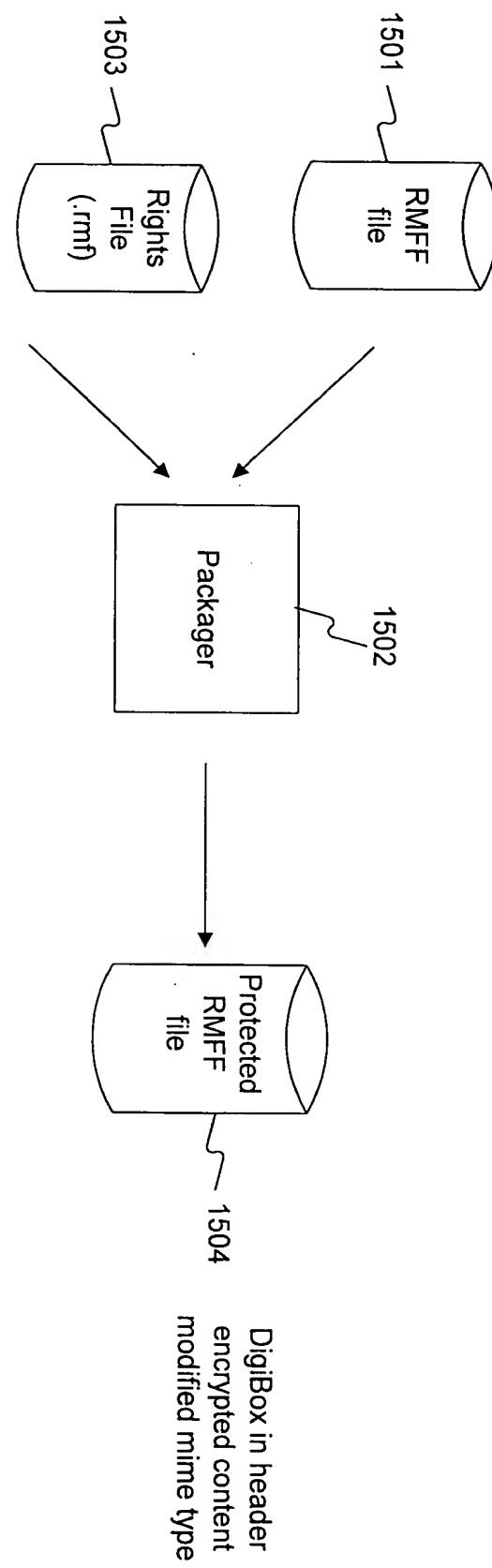
**Fig. 13**

## Real Networks/Protected File Format

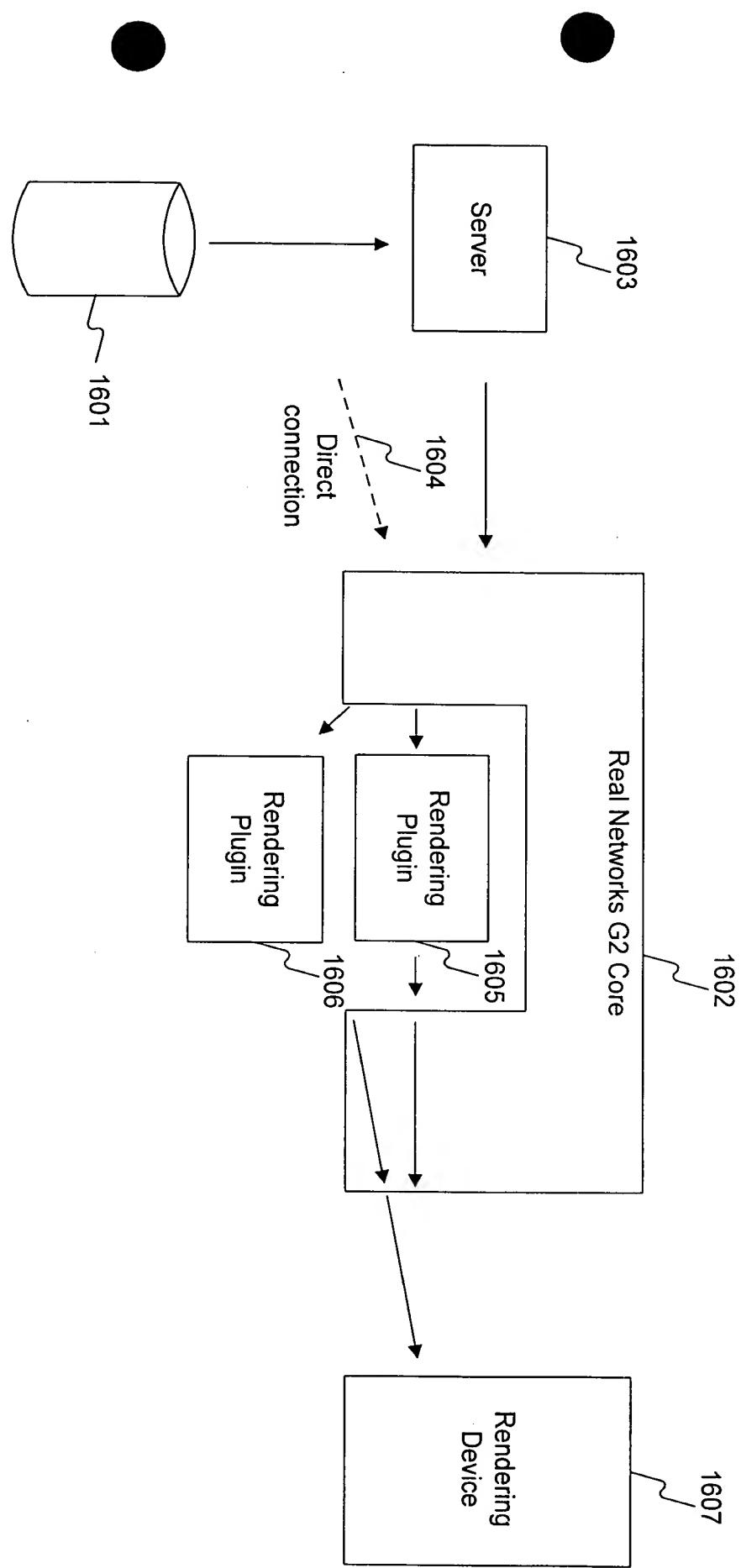


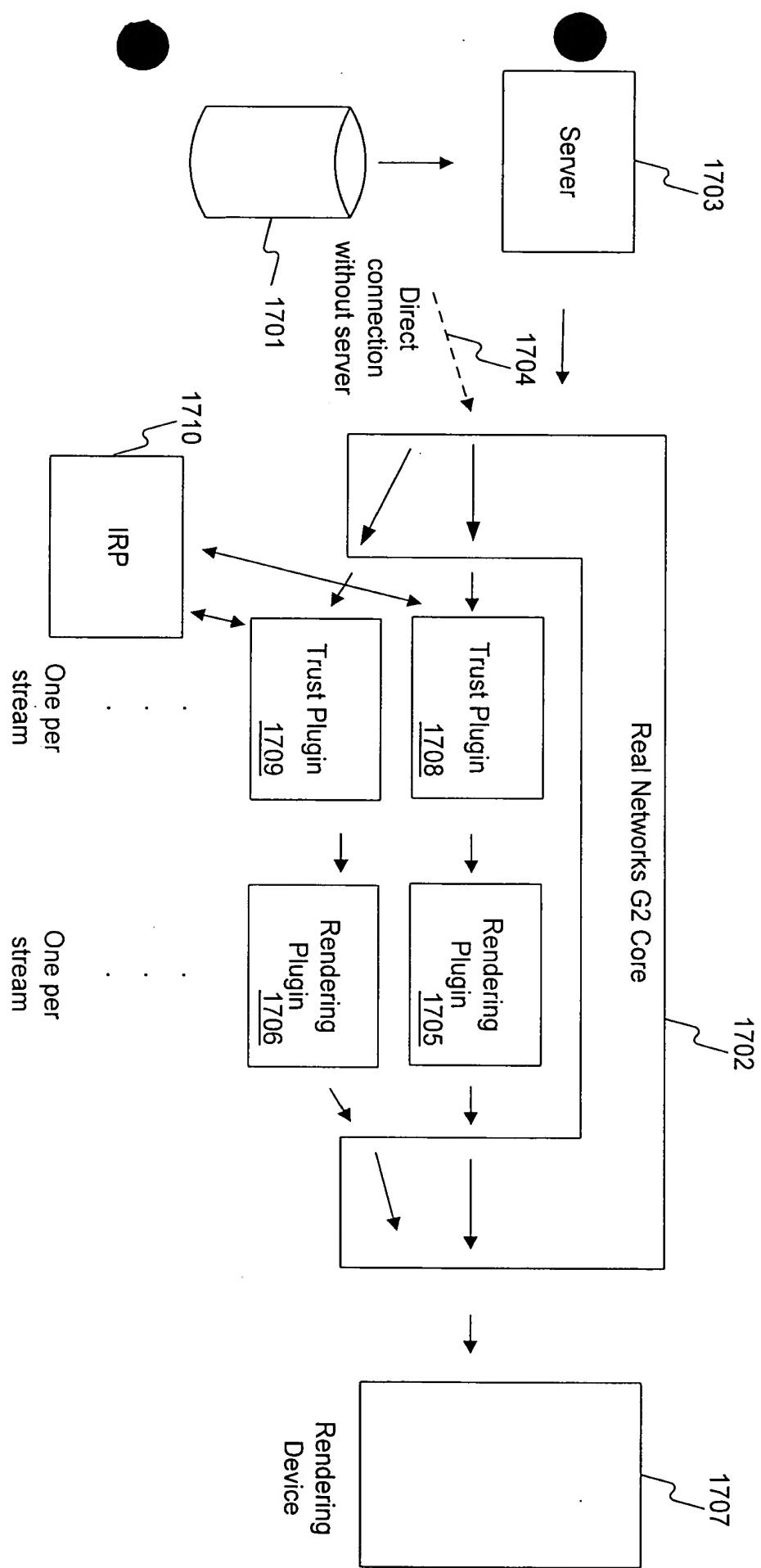
**Fig. 14**

**Fig. 15**



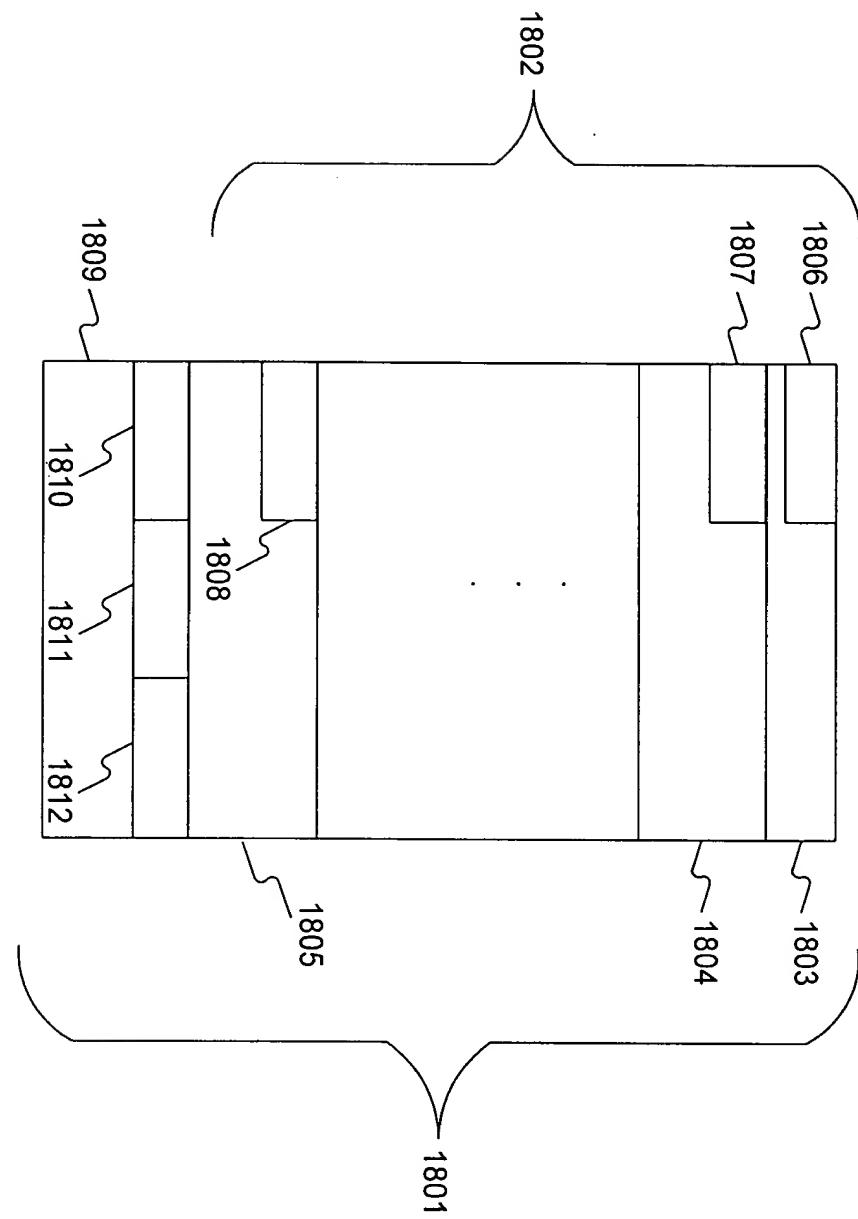
**Fig. 16**

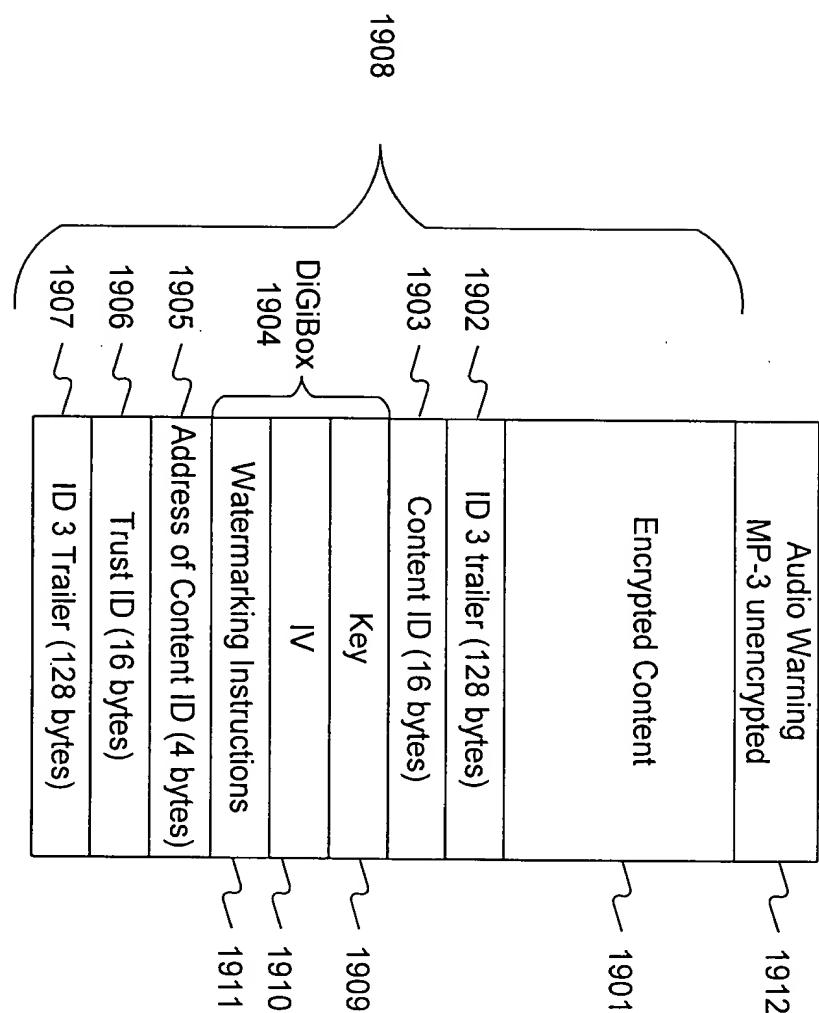




**Fig. 17**

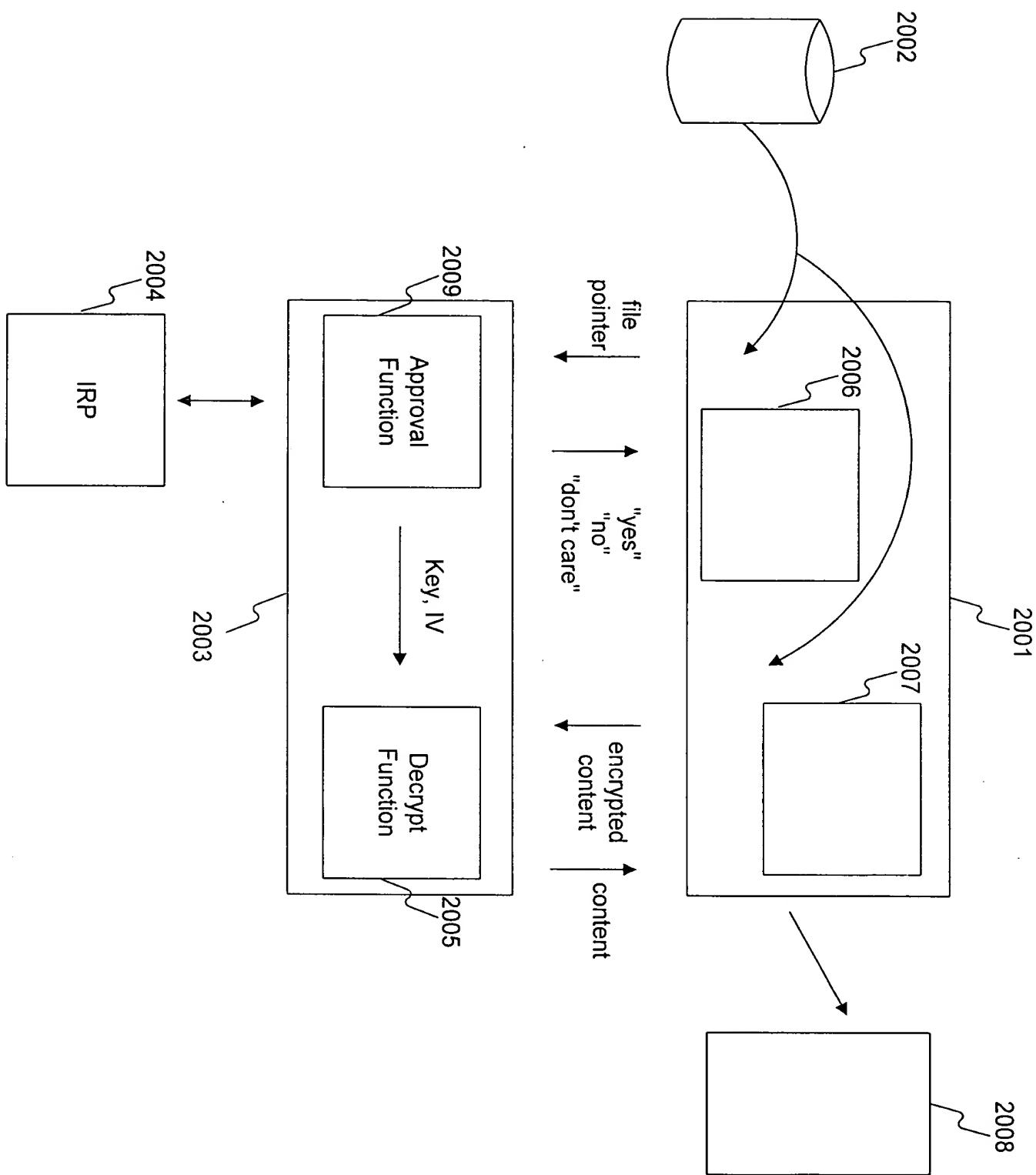
**Fig. 18**





**Protected MP3 Format**

**Fig. 19**



## Creating New MPEG-4 File

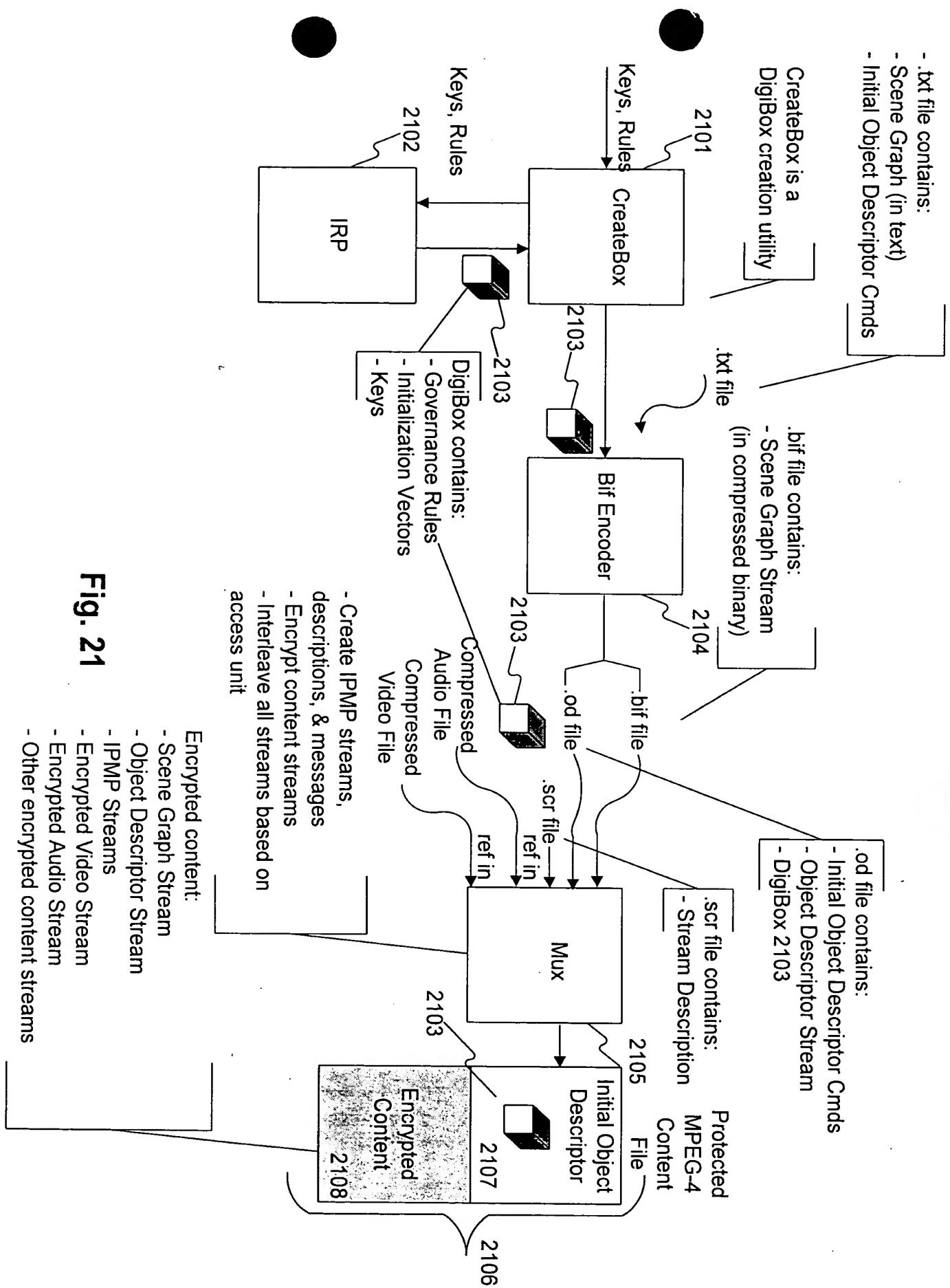
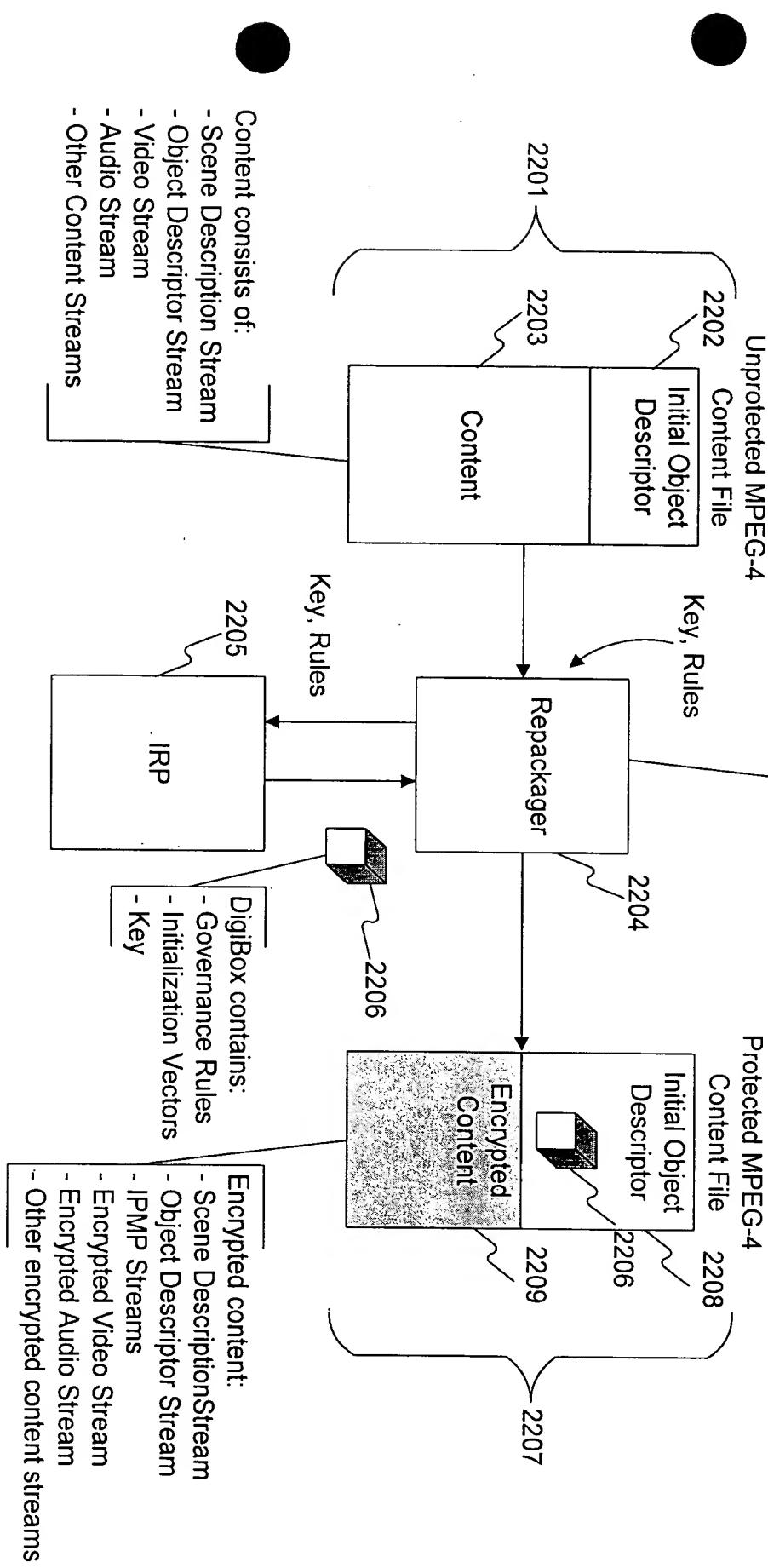


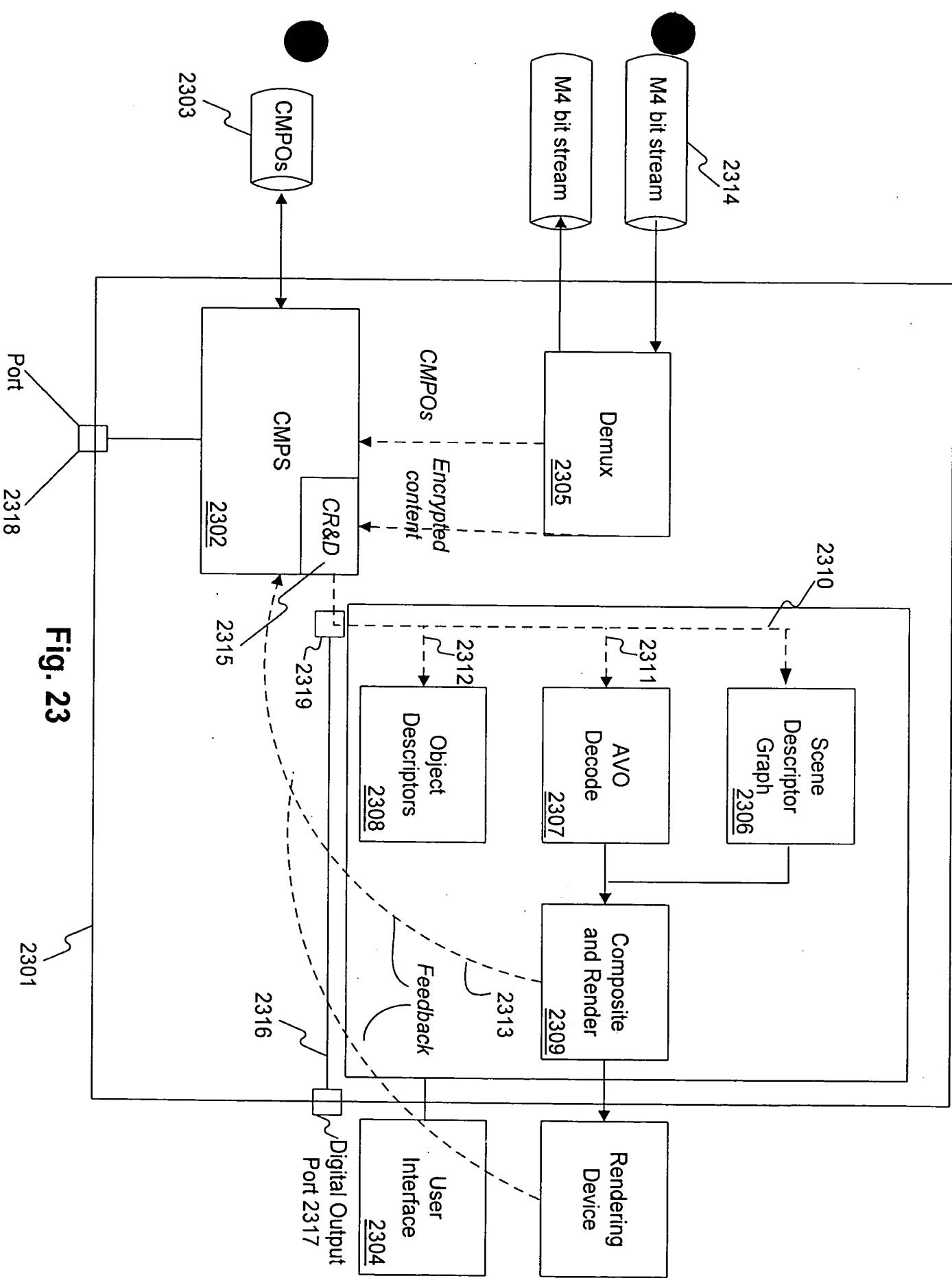
Fig. 21

- Encrypted content:
- Scene Graph Stream
- Object Descriptor Stream
- IPMP Streams
- Encrypted Video Stream
- Encrypted Audio Stream
- Other encrypted content streams

## Repackaging Existing MPEG-4 Files

MPEG-4 File is transformed with a packaging program which encrypts the Content and embeds DigiBox in the Initial Object Descriptor, it also adds the IPMP streams, descriptors, and messages





**Fig. 23**

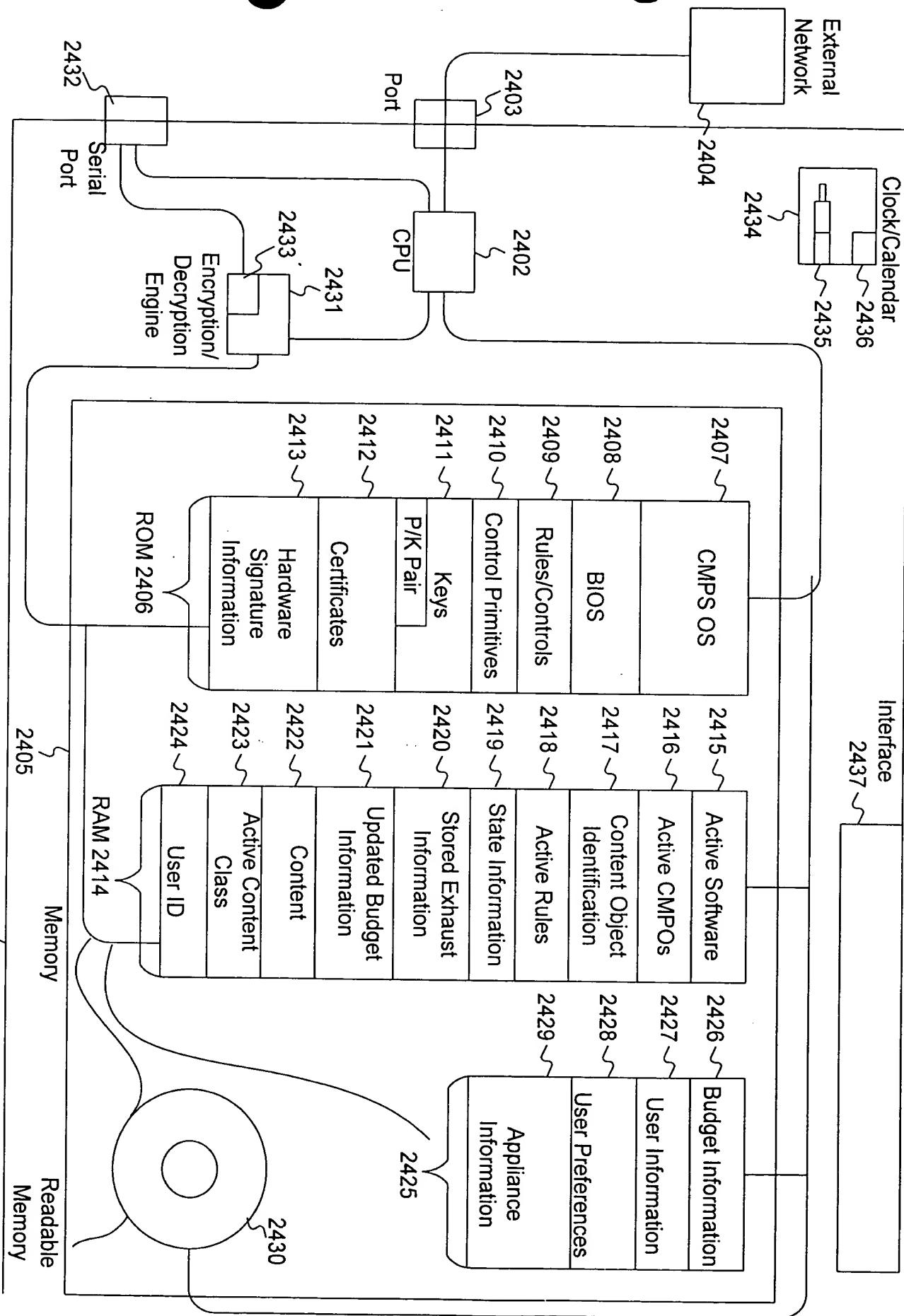
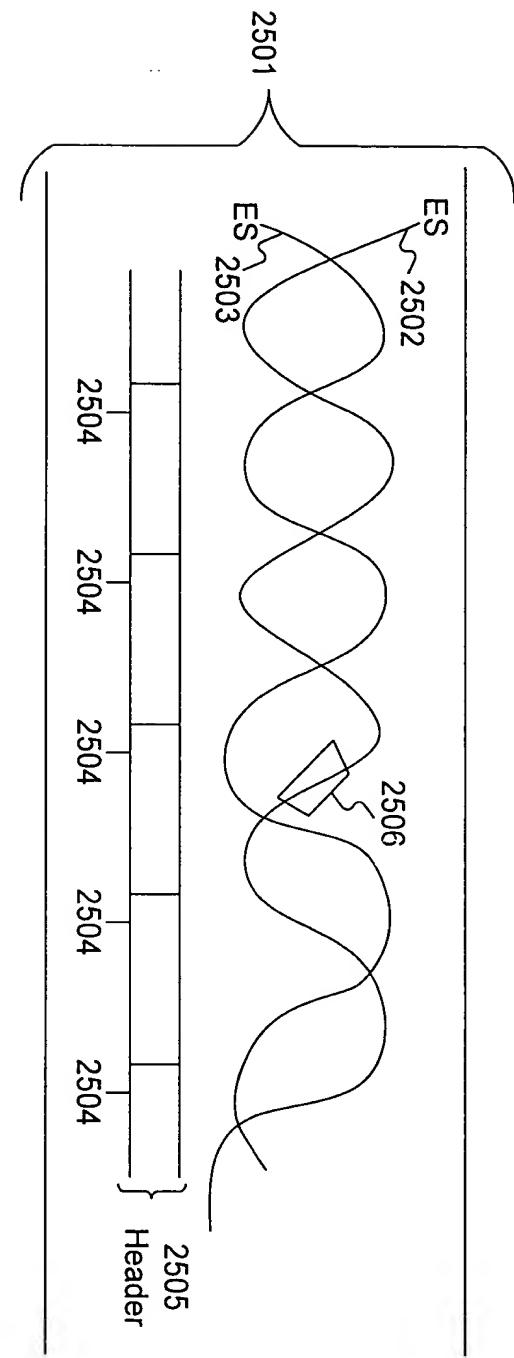
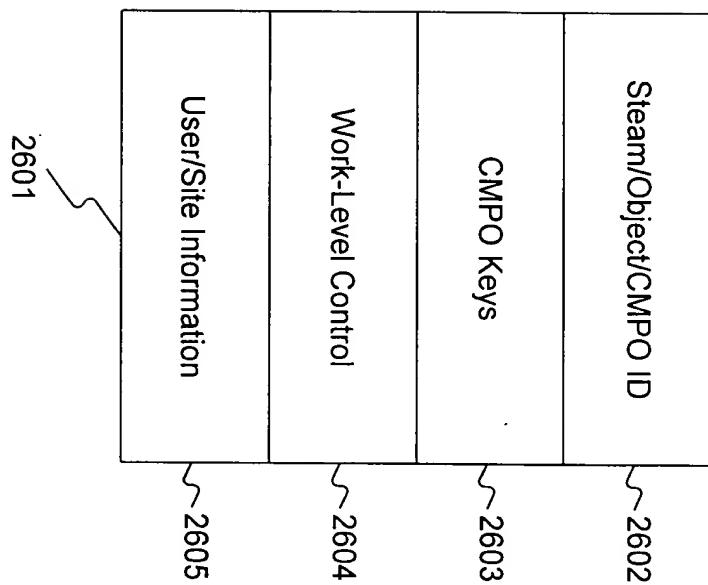


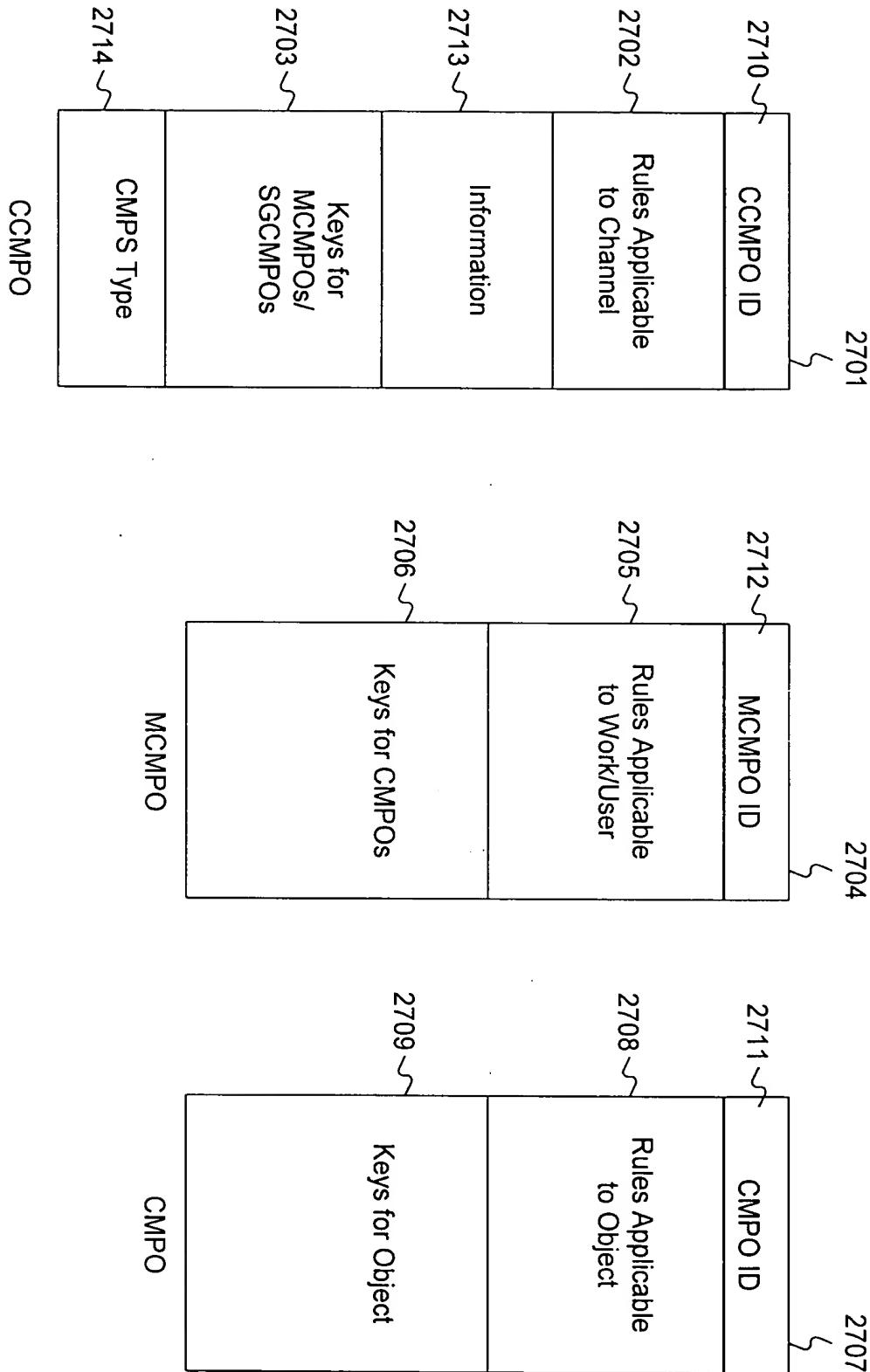
Fig. 24



**Fig. 25**

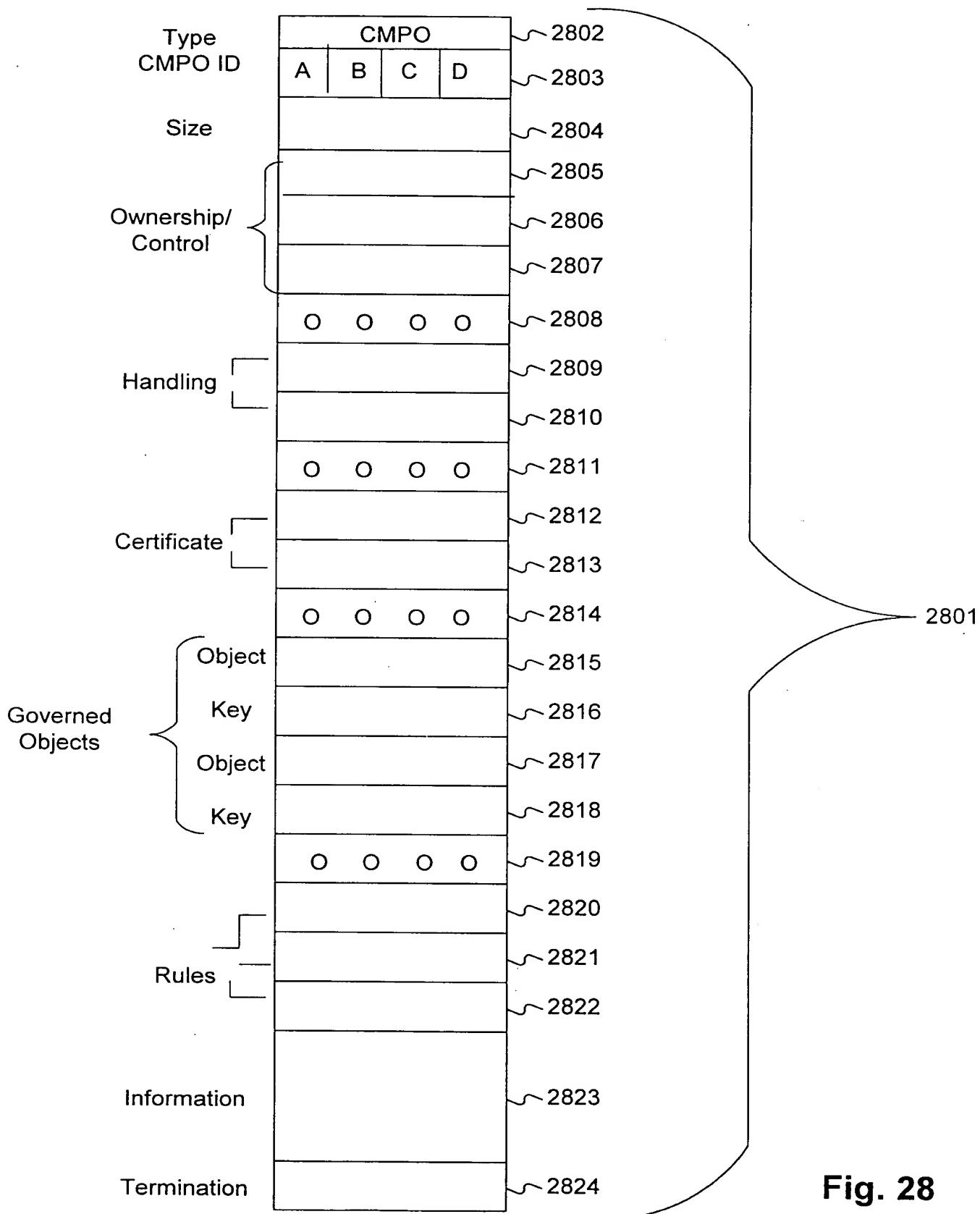


**Fig. 26**



**Fig. 27**

## CMPO Structure



**Fig. 28**

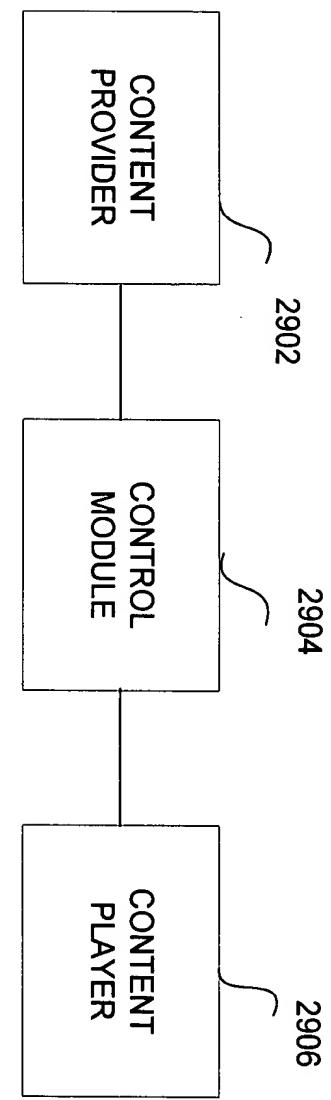


FIG. 29

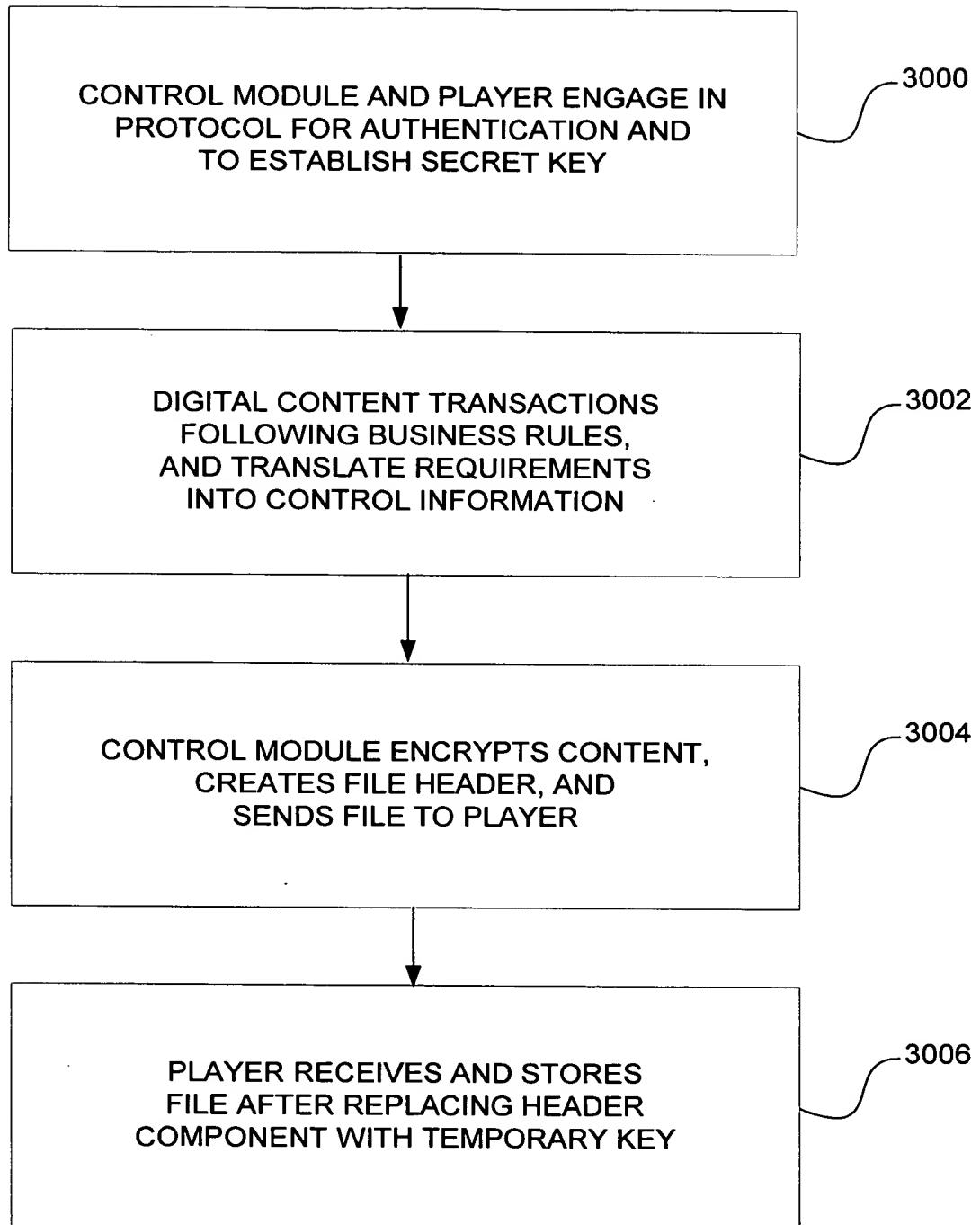


FIG. 30

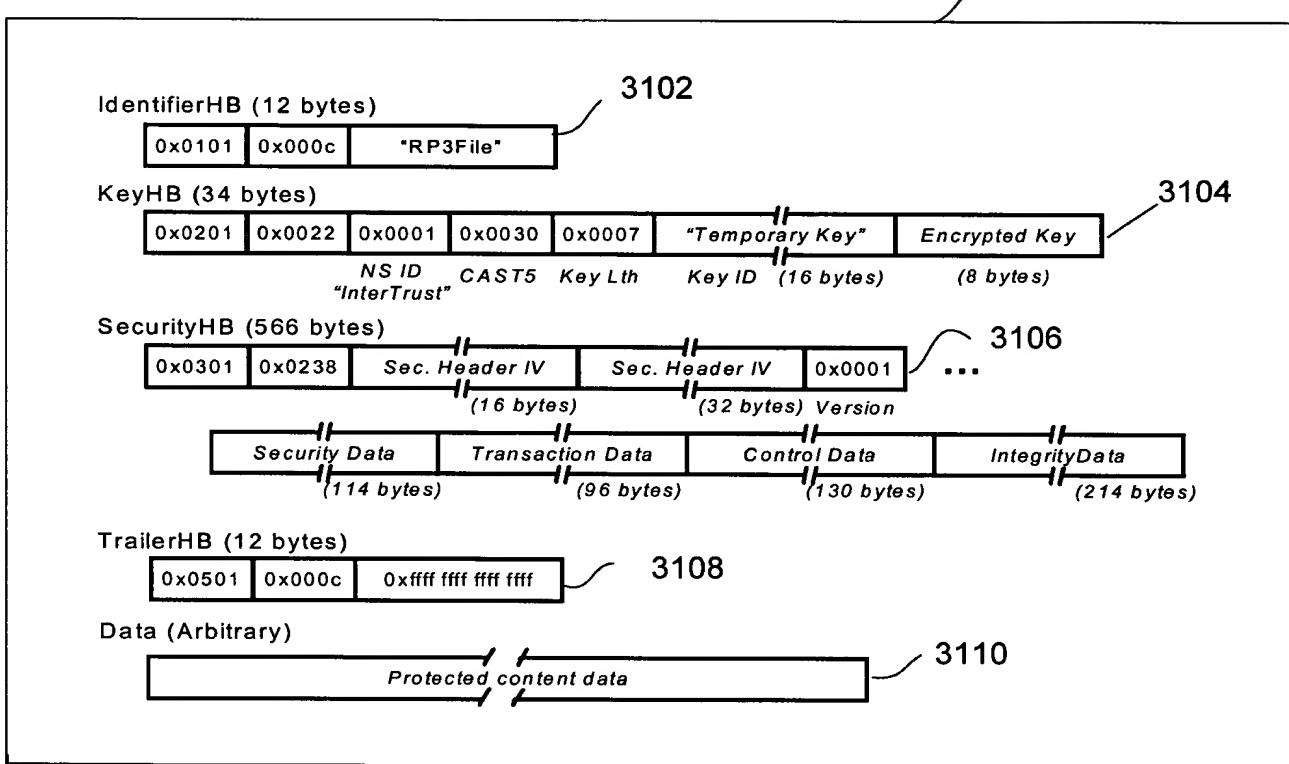


FIG. 31

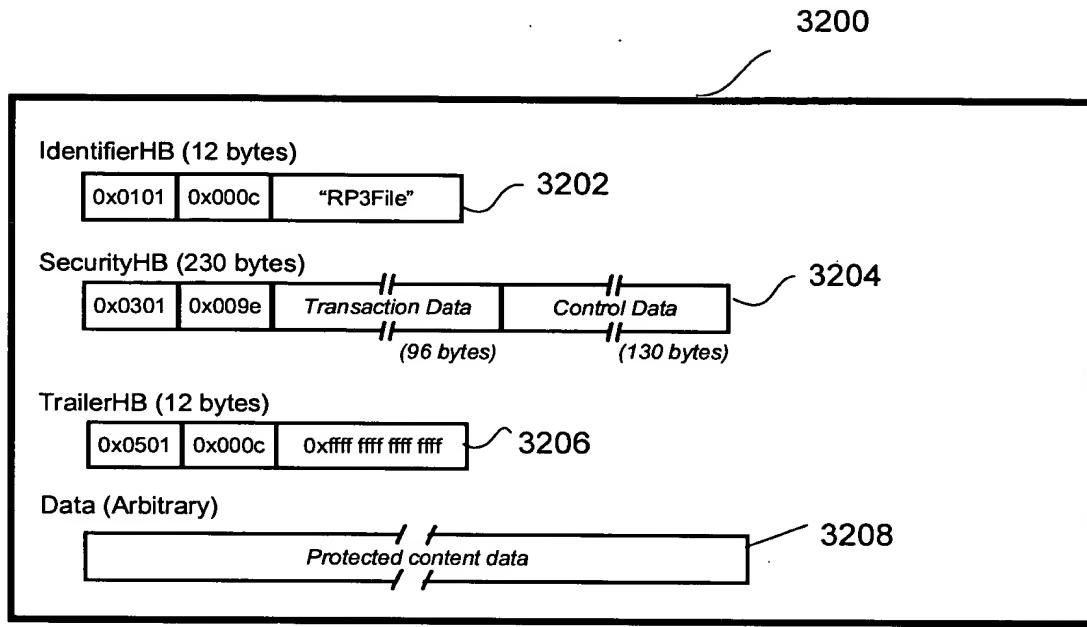


FIG. 32